

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** An acoustic signal-processing apparatus comprising:
a band-dividing unit operable to divide ~~a low frequency component in an entering~~
acoustic signal into divided filtered components that belong to several frequency bands;
~~a formational condition-establishing unit operable to establish a formational condition in~~
~~such a manner that a plurality of overtone components to be generated meet a given condition;~~
an overtone-generating unit operable to generate, ~~according to the established-~~
~~formational condition under predetermined conditions, one or more the~~ plurality of overtone
components based on each of the divided filtered components that belong to the several
frequency bands; and
a combining unit operable to combine the entering acoustic signal with the one or more
~~plurality of~~ overtone components generated by said overtone-generating unit,
wherein the predetermined conditions include:
a condition that a first maximum degree among one or more degrees of the one or more
overtone components generated based on a component belonging to a first frequency band among
the several frequency bands is not greater than a second maximum degree among one or more
degrees of the one or more overtone components generated based on a component belonging to a
second frequency band among the several frequency bands, the second frequency band being
lower than the first frequency band; and
a condition that a third maximum degree among one or more degrees of the one or more
overtone components generated based on a component belonging to the highest frequency band

among the several frequency bands is less than a fourth maximum degree among one or more degrees of the one or more overtone components generated based on a component belonging to the lowest frequency band among the several frequency bands.

2-4. (Canceled)

5. (Currently Amended) An acoustic signal-processing apparatus as defined in claim [[1]] 22, wherein the single degree of overtone component is established formational condition-
defines generation of the plurality of overtone components for each of the several frequency-
bands, the plurality of overtone components having at least one of a reachable least degree and a
degree greater than the reachable least degree, the a reachable least degree, the reachable least
degree being a least degree that reaches an envisaged speaker reproducible band.

6-8. (Canceled)

9. (Currently Amended) An acoustic signal-processing apparatus as defined in claim [[7]] 22, wherein the single degree is set in such a manner that one or more the plurality of
overtone components generated based on the divided filtered components that belong to the
several frequency bands have frequencies non-overlapped with each other.

10. (Currently Amended) An acoustic signal-processing apparatus as defined in claim 1, wherein each of the one or more plurality of overtone components have amplitude set to

decrease with an increase in frequency.

11. (Currently Amended) An acoustic signal-processing method comprising:

dividing ~~a low-frequency component in an entering acoustic signal into~~ divided filtered components that belong to several frequency bands;

~~establishing a formational condition in such a manner that a plurality of overtone components meet a given condition;~~

~~generating, according to the established formational condition under predetermined conditions, one or more~~ the plurality of overtone components based on each of the divided filtered components that belong to the several frequency bands; and

combining the entering acoustic signal with the one or more ~~plurality of~~ overtone components,

wherein the predetermined conditions include:

a condition that a first maximum degree among one or more degrees of the one or more overtone components generated based on a component belonging to a first frequency band among the several frequency bands is not greater than a second maximum degree among one or more degrees of the one or more overtone components generated based on a component belonging to a second frequency band among the several frequency bands, the second frequency band being lower than the first frequency band; and

a condition that a third maximum degree among one or more degrees of the one or more overtone components generated based on a component belonging to the highest frequency band

among the several frequency bands is less than a fourth maximum degree among one or more degrees of the one or more overtone components generated based on a component belonging to the lowest frequency band among the several frequency bands.

12-20. (Canceled)

21. (New) An acoustic signal-processing apparatus as defined in claim 1, wherein the one or more overtone components generated by said overtone-generating unit are within a range capable of being reproduced by a speaker,

wherein the predetermined conditions further include:

a condition that a first least degree among one or more degrees of the one or more overtone components generated based on a component belonging to the highest frequency band is not greater than a second least degree among one or more degrees of the one or more overtone components generated based on a component belonging to the lowest frequency band.

22. (New) An acoustic signal-processing apparatus as defined in claim 21, wherein the predetermined conditions further include:

a condition that only a single degree of overtone component is generated with respect to each band of the several frequency bands.